



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T-4358

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2017-04-15-04 Date: 19-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-17
Sample ID No : 2017-04-15-05/01
Type of Mix : Coarse Aggregate for DBM (Dense Bituminous Macadam)
Date of test : 15-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-8
Flakiness Index	10.6%	Combined Flakiness & Elongation Index for DBM is Maximum 35%
Elongation Index	10.2%	
Combined Flakiness and Elongation Index for DBM	20.8%	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer
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Prepared By:
Harshitha

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2017-04-15-05 Date: 16-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-17
Sample ID No : 2017-04-15-05/01
Type of Mix : DBM-Plant (Dense Bituminous Macadam)
Date of test : 15-04-17
Weight of Sample(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.6	90-100
19	1013	1185	23.70	76.3	71-95
13.2	520	1705	34.10	65.9	56-80
4.75	1150	2855	57.10	42.9	38-54
2.36	710	3565	71.30	28.7	28-42
0.3	1014	4579	91.58	8.4	7-21
0.075	272	4851	97.02	3.0	2-8
PAN	149	5000	0.00	0	0

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2017-04-15-05 Date: 19-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng.
Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-17
Sample ID No : 2017-04-15-05/01
Type of Mix : DBM(Dense Bituminous Macadam)
Date of test : 15-04-17

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	97.5	Minimum Retained Coating 95%
2	98.0	2.0		
3	96.5	3.5		

Note:

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2017-04-15-05 Date: 19-04-17
 Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
 Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
 Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
 Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
 Source of Sample : Hot Mix Plant, Bangalore
 Sample Condition : Satisfactory
 Date of Receipt : 15-04-17
 Sample ID No : 2017-04-15-05/01
 Type of Mix : DBM(Dense Bituminous Mecadam)
 Date of test : 15-04-17

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.21	10.85	9KN(min)
2	Marshal flow at 60°C, mm	3.54	3.85	2-4
3	Percent air Voids	4.28	4.64	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.49	14.53	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.17	71.34	65-75
6	Density, g/cc	2.36	2.34	-

Note:-

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TEST RESULTS OF GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2017-04-20-05 Date: 22-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Date of Receipt : 20-04-17
Sample ID No : 2017-04-20-05/01
Type of Mix : DBM (Dense Bituminous Macadam)
Date of test : 20-04-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	502
2	Weight of the sample After extraction	B	480	479
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.57	4.58
4	Average percentage	%	4.6	

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Lab ID : CP-RW-2017-04-20-05

Date: 22-04-17

Sample ID No : 2017-04-20-05/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 480

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	7	7	1.46	98.5	90-100
19	47	54	11.25	88.8	71-95
13.2	89	143	29.79	70.2	56-80
4.75	133	276	57.50	42.5	38-54
2.36	54	330	68.75	31.3	28-42
0.3	91	421	87.71	12.3	7-21
0.075	42	463	96.46	3.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.04	99.0	90-100
19	48	53	11.06	88.9	71-95
13.2	99	152	31.73	68.3	56-80
4.75	102	254	53.03	47.0	38-54
2.36	85	339	70.77	29.2	28-42
0.3	73	412	86.01	14.0	7-21
0.075	51	463	96.66	3.3	2-8

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TEST RESULTS OF GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2017-04-20-05 Date: 22-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Date of Receipt : 20-04-17
Sample ID No : 2017-04-20-05/02
Type of Mix : DBM (Dense Bituminous Macadam)
Date of test : 20-04-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	502
2	Weight of the sample After extraction	B	479	478
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.58	4.78
4	Average percentage	%	4.7	

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Lab ID : CP-RW-2017-04-20-05

Date: 22-04-17

Sample ID No : 2017-04-20-05/02

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	6	6	1.25	98.7	90-100
19	46	52	10.86	89.1	71-95
13.2	90	142	29.65	70.4	56-80
4.75	135	277	57.83	42.2	38-54
2.36	55	332	69.31	30.7	28-42
0.3	92	424	88.52	11.5	7-21
0.075	40	464	96.87	3.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	55	58	12.13	87.9	71-95
13.2	101	159	33.26	66.7	56-80
4.75	100	259	54.18	45.8	38-54
2.36	81	340	71.13	28.9	28-42
0.3	75	415	86.82	13.2	7-21
0.075	46	461	96.44	3.6	2-8

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TEST REPORT OF AGGREGATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2017-04-17-05 Date: 21-04-17
 Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
 Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
 Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
 Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 17-04-17
 Sample ID No : 2017-04-17-05/01
 Type of Mix : BC (Bituminous Concrete)
 Date of test : 17-04-17

Type of Binder : 60/70
 % of Binder Used : 5.0%
 Weight of Aggregate : 200.0 gm
 Weight of Binder : 10.0 gm
 Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.5	Minimum Retained Coating 95%
2	98.0	2.0		
3	99.0	1.0		

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TEST RESULTS OF GRADATION FOR BC IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2017-04-17-05 Date: 21-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-04-17
Sample ID No : 2017-04-17-05/01
Type of Mix : BC-Plant (Bituminous Concrete)
Date of test : 17-04-17
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	55	55	1.1	98.9	90-100
9.5	786	841	16.8	83.2	70-88
4.75	662	1503	30.1	69.9	53-71
2.36	728	2231	44.6	55.4	42-58
1.18	501	2732	54.6	45.4	34-48
0.6	811	3543	70.9	29.1	26-38
0.3	272	3815	76.3	23.7	18-28
0.15	373	4188	83.8	16.2	12-20
0.075	387	4575	91.5	8.5	4-10
PAN	425	5000	100	0.0	0

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2017-04-17-05 Date: 21-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 17-04-17
Sample ID No : 2017-04-17-05/01
Type of Mix : BC (Bituminous Concrete)
Date of test : 17-04-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow				
SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.82	11.75	10KN(min)
2	Marshal flow at 60°C, mm	3.18	3.47	2-4
3	Percent air Voids	4.22	4.84	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.94	14.88	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.19	70.83	65-75
6	Density, g/cc	2.36	2.35	-

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS:2386 Part 1)

Lab ID : CP-RW-2017-04-17-05 Date: 21-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-04-17
Sample ID No : 2017-04-17-05/01
Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)
Date of test : 17-04-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-16
Flakiness Index	8.9%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	10.2%	
Combined Flakiness and Elongation Index for BC	19.1%	

Note:

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TESTS RESULTS ON AGGREGATE IMPACT VALUE (IS:2386 Part IV)

Lab ID : CP-RW-2017-04-17-05 Date: 21-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-04-17
Sample ID No : 2017-04-17-05/01
Type of Mix : Coarse Aggregate for BC (Bituminous Mecadam)
Date of test : 17-04-17

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	310.5	310.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	60.6	63.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	249.6	246.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.3
5	Aggregate impct value	(B/A)*100	19.52	20.34
6	Aggregate impct value (Mean of two tests)		19.93	

Note:-

The results pertain to the samples received and tested.

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST (IS:2386 Part III)

Lab ID : CP-RW-2017-04-17-05 Date: 21-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-04-17
Sample ID No : 2017-04-17-05/01
Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)
Date of test : 17-04-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2240	2195	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1149	1467	
4	Weight of Saturated Surface Dry aggregate	B	grams	2348	2355	
5	Weight of oven dried aggregate	C	grams	2341	2348.5	
6	Specific gravity	C/(B-A)		2.60	2.64	2.62
7	Apparent Specific gravity	C/(C-A)		2.62	2.66	2.64
8	Water absorption	100*(B-C)/C	Percent	0.30	0.28	0.29

Note:-

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

Harshitha
AE-03



FOR CIVIL PRO
R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

**TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2017-04-25-05 Date: 26-04-17
Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name : Asphaltting to Roads and improvements to drains in Escorts Eng. Layout 1st main and cross roads of Attur Ward No.03
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/139/2017-18
Source of Sample : Sample supplied by Agency
Date of Receipt : 25-04-17
Sample ID No : 2017-04-25-05/01
Type of Mix : BC (Bituminous Concrete)
Date of test : 25-04-17

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	502
2	Weight of the sample After extraction	B	472	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.58
4	Average percentage	%	5.6	

HEW3
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AC-22

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Quality Manager



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

Sample ID

: CP-RW-2017-04-25-05

: 2017-04-25-05/01

Date: 26-04-17

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-1

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	2.5	97.5	90-100
9.5	52	64	13.6	86.4	70-88
4.75	127	191	40.5	59.5	53-71
2.36	18	209	44.3	55.7	42-58
1.18	43	252	53.4	46.6	34-48
0.6	44	296	62.7	37.3	26-38
0.3	61	357	75.6	24.4	18-28
0.15	28	385	81.6	18.4	12-20
0.075	45	430	91.1	8.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	9	9	1.9	98.1	90-100
9.5	56	65	13.7	86.3	70-88
4.75	135	200	42.2	57.8	53-71
2.36	28	228	48.1	51.9	42-58
1.18	32	260	54.9	45.1	34-48
0.6	35	295	62.2	37.8	26-38
0.3	76	371	78.3	21.7	18-28
0.15	31	402	84.8	15.2	12-20
0.075	41	443	93.5	6.5	4-10

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AE-02

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End of Report



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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Lab ID

Sample ID

: CP-RW-2017-04-25-05

: 2017-04-25-05/02

Date: 26-04-17

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-1

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	54	64	13.5	86.5	70-88
4.75	122	186	39.3	60.7	53-71
2.36	26	212	44.8	55.2	42-58
1.18	43	255	53.9	46.1	34-48
0.6	51	306	64.7	35.3	26-38
0.3	61	367	77.6	22.4	18-28
0.15	35	402	85.0	15.0	12-20
0.075	48	450	95.1	4.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 472

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	87	92	19.5	80.5	70-88
4.75	106	198	41.9	58.1	53-71
2.36	58	256	54.2	45.8	42-58
1.18	44	300	63.6	36.4	34-48
0.6	29	329	69.7	30.3	26-38
0.3	43	372	78.8	21.2	18-28
0.15	22	394	83.5	16.5	12-20
0.075	51	445	94.3	5.7	4-10

Note:

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AE-03

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